

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
3 November 2005 (03.11.2005)

PCT

(10) International Publication Number  
**WO 2005/102228 A1**

(51) International Patent Classification<sup>7</sup>: **A61F 5/00**

(74) Agents: ADAMS, III, W. Thad et al.; Adans Evans P.A., 2180 Two Wachovia Center, Charlotte, NC 28282 (US).

(21) International Application Number: **PCT/US2005/004454**

(22) International Filing Date: 14 February 2005 (14.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/557,986 31 March 2004 (31.03.2004) US  
60/559,173 2 April 2004 (02.04.2004) US

(71) Applicant: BSN MEDICAL, INC. [US/US]; Corporation Trust Center, 1209 Orange Street, Wilmington, DE 19801 (US).

(71) Applicants and

(72) Inventors: EVANS, John, C. [GB/US]; 4508 Alexander Valley Drive, Charlotte, NC 28270 (US). CHABBA, Shitij [IN/US]; 4501 Headley Way, #108, Charlotte, NC 28210 (US).

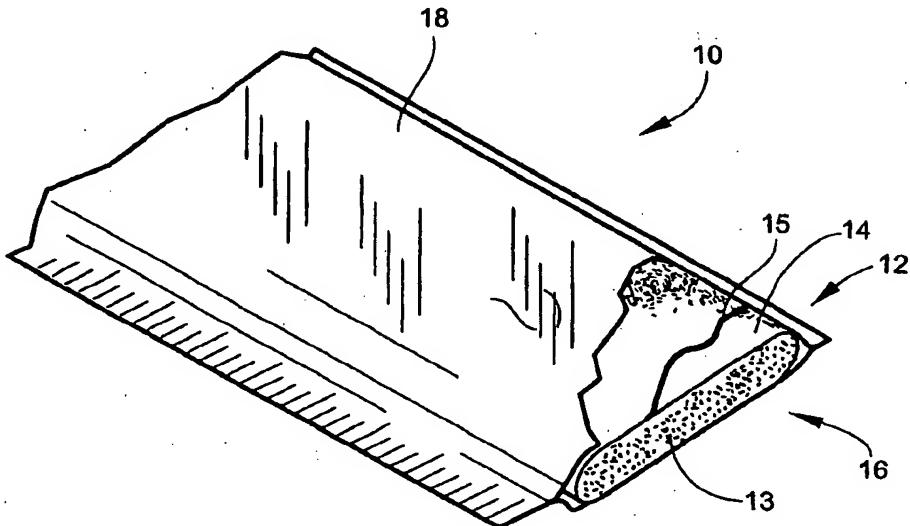
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: ROLL FORM MEDICAL BANDAGING PRODUCT, MEDICAL BANDAGE MATERIAL, METHOD OF CONSTRUCTING SAME, AND BANDAGING METHOD

WO 2005/102228 A1



(57) Abstract: A medical bandaging product in roll form for being dispensed in predetermined lengths and including an elongate sleeve (18) formed of moisture-impervious material and sealable to prevent entry of moisture, and an elongate medical bandage material (16) positioned in the sleeve and sealed thereto against entry of moisture until use. The medical bandage material includes a substrate (12) formed from a foam layer (14) and a textile reinforcement layer (14) attached to the foam layer. A reactive system (15) is impregnated into or coated onto the substrate and remains stable when maintained in substantially moisture-free conditions. The substrate hardens upon exposure to moisture to form a rigid splint.



**Published:**

— *with international search report*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*